

**CLASS SPECIFICATION**  
**County of Fairfax, Virginia**

**CLASS CODE:** 6282

**TITLE:** ELECTRICIAN I

**GRADE:** S-17

**DEFINITION:**

Under direction, installs, maintains and repairs electrical distribution and lighting systems and related equipment; and performs related work as required.

**DISTINGUISHING CHARACTERISTICS OF THE CLASS:**

The Electrician I class is distinguished from the Electrician II class in that positions assigned to the Electrician I class perform routine journeyman level work and may require guidance from Electrician II's on more complex tasks. Positions assigned to the Electrician II class are expected to perform complex tasks and may serve as a lead worker for Electrician I and other trade helpers.

**ILLUSTRATIVE DUTIES:**

Performs preventive maintenance and repairs to main switchboards, panel boards, etc. with voltage up to 600 volts ac and main bus amperages up to 6000;

Installs circuits for power, lighting and equipment using various wiring methods (i.e. rigid metal conduits, armored cables, etc.);

Assists in troubleshooting, repairs and/or installs main switchboards, main and branch circuits breakers, disconnects and wiring devices such as switches, convenience receptacles and dedicated receptacles;

Troubleshoots or assists in troubleshooting/repairing live electrical circuits with voltages up to 600 ac;

Diagnoses problems and repairs/replaces failed lighting systems and controls as well as electromagnetic and electronic ballasts on lighting equipment;

Troubleshoots or assists in troubleshooting/repairing live electrical circuits with voltages up to 600 volts ac;

Operates assigned service vehicle and maintains inventory of spare parts;

Makes cost and material estimates;

Collects data for preventive maintenance system and maintains activity logs;

Responds to routine and emergency service calls after normal working hours;

Follows safety regulations and procedures;

May oversee activities of Maintenance Trade Helpers.

**REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:**

Knowledge of the equipment, standards, and practices of the electrical trade;

Knowledge of applicable county, state and national electrical, NFPA and safety codes;

Knowledge of safety regulations and procedures as well as common hazards associated with working with electricity;

Ability to plan and perform work of the trade at the journeyman-level;

Ability to follow written and oral instructions as well as diagrams, schematics, blue prints and manufacturer's manuals;  
Ability to estimate time and material needs;  
Ability to use, where applicable, hand held computers;  
Ability to maintain good interpersonal relationships;  
Ability to train/instruct Maintenance Trade Helpers;  
Ability to perform duties in inclement weather, climb ladders and scaffolds and routinely work in dark, hot, cold or damp working environments in tiring, physically demanding positions for long periods of time with possible exposure to hazardous materials

**EMPLOYMENT STANDARDS:**

Any combination of education, experience, and training equivalent to the following:  
High school diploma or G.E.D. issued by a state department of education; AND  
Completion of an apprentice-level electrical vocational training program.  
Four years practical, progressively responsible electrical experience may be substituted for the apprentice-level training program.

**NECESSARY SPECIAL REQUIREMENTS:**

Valid state motor vehicle operator's license;  
Valid journeyman electrical certification from the state of Virginia or the ability to obtain one within six months of appointment.

REVISED/REGRADED:	June 2, 2006
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